8. Lisa

Program Name: Lisa.java Test Input File: lisa.dat

Lisa has decided to play around with her friends, well, with their names, anyway. She has just learned about how different letters of the alphabet have integer values that represent them. For example, the uppercase letter 'A' has a value of 65, and little 'a' has a value of 97. The values for 'B and 'b' are 66 and 98, and the rest of the alphabet follows in sequence.

She decides to calculate a "name weight" for each person, which consists of a complex formula. The formula takes three sums, averages those three sums, and then divides the average by the number of letters in each person's name. The first sum is found by adding up the ASCII values for each person's name, just as it is, with the first letter in uppercase, and the rest in lower case. The second sum adds up all the ASCII values of the uppercased version of the name, and the third sum adds up the values for the lowercased version.

Using her own name as an example, the values for characters in the name "**Lisa**" are 76, 105, 115 and 97, which add up to 393. For the uppercased name, "**LISA**", the values are 76, 73, 83 and 65, for a total of 297. The lowercased name, "**lisa**", has ASCII values of 108, 105, 115 and 97, totaling 425. These three sums are added together... 393+297+425 ... to equal 1115, which is then divided by 3 to equal 371.66667, which is then divided by the length of her name, 4, to make 92.916667.

The output for each name is to include the original form of the name, the three sums in order – original, uppercased, lowercased – and the final "name weight" average, formatted to two decimal places.

Finally, all the names need to be output in descending order by the final "name weight" average, as shown below.

Input: Several names of friends, each on one line.

Output: All the names in descending order by "name weight" average, as described above and shown in the example below. The alignment must match EXACTLY as shown. It is guaranteed that the judge's test data will have no names longer than those contained in this sample data. The name "Alessandra" is the longest name in the data set, and occupies ten spaces, with is one space between her name and the following number. The rest of the data is guaranteed to fit accordingly.

Sample Input:

Lisa Alessandra Brandon Camilo Denise

Sample Output:

1022	734	1054	93.67
708	516	740	93.52
393	297	425	92.92
600	440	632	92.89
597	437	629	92.39
	708 393 600	708 516 393 297 600 440	393 297 425 600 440 632